

# Audit plan for evaluation of welding coordinators

1 Welding processes and equipment		OK	Fail
Welding processes			
Welding consumables, storage and handling			
Weld geometry, tolerances and preparation			
Welding procedures, qualification of WPS and documentation			
Mechanized welding processes			
Welding robots and equipment			
Maintenance and calibration of welding equipment			
Welding fixtures and accessories			
2 Materials and weldability		OK	Fail
Manufacturing and testing of steel			
Metallurgy			
Weldability and toughness issues			
Weldability and hardness issues			
Mechanical properties for construction steel and aluminum			
Corrosion and surface treatment			
Other materials			
Storage and handling of steel products			
3 Construction and design of welded components		OK	Fail
Basic properties for steel			
Types of fracture			
Welding defects and the consequences			
Static design			
Fatigue design			
General design of welded steel structures			
Aluminum constructions			
Fracture mechanics principals			
Calculation of weld stresses and deformations			
Precautions to avoid weld stresses and deformations			
European standards			
4 Manufacturing and quality control		OK	Fail
Quality assurance according to ISO 3834			
Symbols and drawings			
Weld plan			
Welding Procedure Specification according to EN ISO 15609-1			
Qualification of WPS according to EN ISO 15614-1			
Welders Qualification according to EN 287-1			
Weld calculations			
HSE			
Welding defects			
Visual inspection			
NDT methods			
Measuring equipment and monitoring of welding parameters			
Production layout			
Heat correction of welded structures			
Repair work, procedures and documentation			
Heat treatments, preheat and interpass temperatures			